BRUHAT BANGALORE MAHANAGARA PALIKE, YELAHANKA ZONE

Executive Engineeer
Project Division
B.B.M.P. Bangalore - 92

APPROVED SCHEDULE - B

Name of Work: Extension of Reva Engineering College road upto 400 Mtrs(BBMP Limits) Byatarayanapura Assembly Constituency Yelahanka Zone".

Sl. No.	Approved Quantity	Description	Unit	Rate	Amount
1	26.88	KSRRB M200-12.1. Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising of masonry,cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications.111) KSRRB M200-12.3. –do– C. Prestressed / Reinforced cement concrete grade M-20 & above.MORTH specification No.202 with all lead and lifts as per Specifications and the directions of the Engineer In-charge of the work.	Cum	954.72	25663.00
2	728.40	KSRRB M200-14.1. Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. KSRRB M200-14.2. –do– Dismantling brick/Tile work B. In cement mortar. with all lead and lifts as per Specifications and the directions of the Engineer In-charge of the work.	Cum	226.80	165201.00
3	408.00	KSRRB M200-15.1. Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. KSRRB M200-15.2. –do– B. Rubble stone masonry in cement mortar. with all lead and lifts as per Specifications and the directions of the Engineer In-charge of the work.	Cum	226.80	92534.00
4	21.60	KSRRB M200-15.1. Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete asper specifications.– v) KSRRB M200-17.1.Steel work in all types of Sections uptoa Height of 5 m above plinth level excluding Cutting of Rivet. – A.Including dismembering." with all lead and lifts as per Specifications and the directions of the Engineer In-charge of the work.	Cum	1123.20	24261.00

Sl. No.	Approved Quantity	Description	Unit	Rate	Amount
5	171.00	Dismantling cement concrete flooring or plain cement concrete work including removing and conveying the debris to distance upto 200m (within average thickness of 15 cms). with all lead and lifts as per Specifications and the directions of the Engineer In-charge of the work.	Sqm	50.76	8680.00
6	112.00	KSRRB M200-23.1. Dismantling of flexible pavements and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. II. By Mechanical Means: A. Bituminous courses. MORTH Specification No. 202 with all lead and lifts as per Specifications and the directions of the Engineer In-charge of the work.	Cum	470.88	52739.00
7	90.00	Hire Charges of JCB, with all lead and lifts as per Specifications and the directions of the Engineer In-charge of the work.	Day	6,720.00	604800.00
8	150.00	Hire Charges of Tipper, with all lead and lifts as per Specifications and the directions of the Engineer In-charge of the work.	Day	1,920.00	288000.00
9	1697.28	KSRRB M300-11. Excavation for road way in soil by mechanical means including cutting and pushing the earth to site of embankment upto a including trimming bottom and side slopes in accordance with requirements of lines, grades and cross sectins complete as per specifications . with all lead and lifts as per Specifications and the directions of the Engineer In-charge of the work.	Cum	193.75	328848.00
10	1939.20	KSRRB M300-55. Construction of sub-grade and earthen shoulders with approved material Gravel/Murrum with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table No. 300-2 complete as per specifications (including cost of earth, watering charges & compaction by vibratory roller) MORTH Specification No. 305 with all lead and lifts as per Specifications and the directions of the Engineer In-charge of the work.	Cum	252.72	490075.00
11	484.80	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. For Grading II Material. with all lead and lifts as per Specifications and the directions of the Engineer In-charge of the work.	Cum	1298.16	629348.00
12	484.80	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. with all lead and lifts as per Specifications and the directions of the Engineer In-charge of the work.	Cum	1438.56	697414.00

Sl. No.	Approved Quantity	Description	Unit	Rate	Amount
13	3232.00	KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. with all lead and lifts as per Specifications and the directions of the Engineer In-charge of the work.	Sqm	35.21	113799.00
14	6464.00	KSRRB M500-7. Providing and applying tack coat on the prepared black topped surfaces at 2.5 Kg per 10 Sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. with all lead and lifts as per Specifications and the directions of the Engineer In-charge of the work.	Sqm	18.74	121135.00
15	161.60	KSRRB 500-16. Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base or binding coarse including loading of aggregates with F.e loader hotmixing of stone aggregates and bitumen in hotmix plant 40 Tonnes capacity, transporting the mixed material in tipper To paver and laying with paver finisher To the required grade rolling by power roller To aachieve the desired density, 50x75mm compacted thickness with 3.3% bitumen but excluding cost of primer or tack coat with lead upTo 1km including cost of all materials, labour as per specifications With 60/70 grade bitumen with all lead and lifts as per Specifications and the directions of the Engineer In-charge of the work.	Cum	7482.24	1209130.00
16	129.28	Providing and laying bituminous concrete 40mm thick with 100-120 TPH batch type hot mix plant producing as average output of 75 Tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 To 5.6% 5.00 of mix and filler, transporting the hot mix To work site, laying with a hydrostatic paver finisher with sensor control To the required grade, level and alignment, rolling with smooth wheeled, vibraTory and tandem rollers To achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects, with 40 mm compacted thickness (Grading II) with 6% Bitumen 60/70 grade using 40-60 HMP using mechanical paver with all lead and lifts as per Specifications and the directions of the Engineer In-charge of the work.	Cum	11552.49	1493506.00
17	120.00	KSRRB M800-13. Providing and Laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.MORTH Specification No. 803 Road Marking with all lead and lifts as per Specifications and the directions of the Engineer In-charge of the work.	Sqm	475.20	57024.00

Sl. No.	Approved Quantity	Description	Unit	Rate	Amount
18	192.00	Providing and fixing of Reflective Raised Pavement marker (RPM's)/ Cat eyes / Road studs confirming to ASTM D4280 type H, having reflective panels made of prismatic lens of total internal reflection, the prismatic lens should be electronically fixed (welded) to the body made of polycarbonate mould, with a height of 20mm, size of 130mm X 105mm and reflecting area of 13Sqcm with the slope of retro reflective surface within the limit of 35+ 5 degree to the base on either side. The marker shape ll display an initial minimum luminous intensity of 79mcd/lux at an entrance angle of zero degree and observation angle of 0.2degree.The corresponding values for 20 degree entrance and 0.2 degree observation angle shall be 112 mcd/lux with color multiplying factor on either cases for white, yellow and red markers being 1.0, 0.6 and 0.25 respectively" The RPM's should be fixed by using two numbers of polymer shanks using appropriate adhesive as recommended and certified by the RPM manufacturer. The raised pavement marker should support a sufficient minimum load 13635 Kg in accordance with ministry specification. with all lead and lifts as per Specifications and the directions of the Engineer In-charge of the work.	Nos	324.00	62208.00
18A	2795.34	Cost of Plastic@ 8% of bitumen qty For Bituminous concrete with all lead and lifts as per Specifications and the directions of the Engineer In-charge of the work.	Nos	27.00	75474.00
19	351.00	KSRRB 300 - 1 : Earthwork excavation by manulal means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / chapter 3 with all lead and lifts as per Specifications and the directions of the Engineer In-charge of the work.	Cum	171.29	60123.00
20	3.00	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix M10 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum machine mixed, machine mixd, concrete laid in layers not exceeding 15cms thick, well compacted, in foundation and plinth, cost of all materials, labour, HOM of machinery, curing complete as per specifications. with all lead and lifts as per Specifications and the directions of the Engineer In-charge of the work.	Cum	6,303.64	18911.00
21	16.20	KSRB 5.3-3: Providing and constructing granite/trap/basalt size stone masonary in basement with cement mortat 1:6, edges of stones chistle dressed in courses not less than 15cm high, bond stones at 2m apart in each course including cost of mterials, labour, scaffolding, curing complete as per specifications. with all lead and lifts as per Specifications and the directions of the Engineer In-charge of the work.	Cum	4542.48	73588.00

Sl. No.	Approved Quantity	Description	Unit	Rate	Amount
22	2.03	KSRB 4-1.7 Providing and laying in position plain cement concrete of nominal mix M15 for coping concrete using cement @ 220kgs, with 20mm and down size graded metal course aggregate @ 0.84 cum and fine aggregates @ 0.56 cum, machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specifications No. KBS 4.1, 4.2 as directed by the Engineer and as per detailed tender specifications.etc., complete. with all lead and lifts as per Specifications and the directions of the Engineer In-charge of the work.	Cum	5287.68	10734.00
23	900.00	Providing granite slabs of selected qualitynroughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete 7.5cm thick with all lead and lifts as per Specifications and the directions of the Engineer In-charge of the work.	Sqm	639.36	575424.00
24	600.00	Pre-cast Drain Cover Slab {size 1.5x0.6x0.1}:- Providing and laying pre-cast drain cover slab of 100mm thickness in CM1:3 including cost of all materials,labour,curing, transportation, loading, unloading etc.,as per doiirections of the Enineer-in-charge with all lead and lifts as per Specifications and the directions of the Engineer In-charge of the work.	Sqm	1659.00	995400.00
25	45.00	Providing & laying precast drain cover slab of 250 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.50 x 0.45 x 0.25)	Sqm	4993.00	224685.00
26	1,333.33	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. with all lead and lifts as per Specifications and the directions of the Engineer In-charge of the work.	No	304.56	406079.00
27	240.00	KSRRB M800-6. Painting two coats on New Concrete Surface:-Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces complete as per specifications. On Kerb Stone with all lead and lifts as per Specifications and the directions of the Engineer In-charge of the work.	Sqm	61.56	14774.00
				Total	**8919557.00**

I am prepared to execute work at the rates written by me in Schedule'B'

Contractor
Reg No.
Postal Address

Executive Engineer
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BBMP, Bangalore-92